

temp1st

SEQUENCE LISTING

<110> Leake, Devin
Reynolds, Angela
Khvorova, Anastasia
Marshall, William

<120> Modified Polynucleotides for Use in RNA
Interference

<130> 13510 PCT

<140> 10/613,077
<141> 2003-07-01

<150> 10/406,908
<151> 2003-04-02

<160> 335

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 1
gugauguaug ucagagagut t

21

<210> 2
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 2
acucucugac auacauacact t

21

<210> 3
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
Page 1

3' end temp1st

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<221> modified_base
<222> (1)...(19)
<223> 2' orthoester

<400> 3
gugauguaug ucagagagut t 21

<210> 4
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine.

<221> modified_base
<222> (1)...(19)
<223> 2' orthoester

<400> 4
acucucugac auacaucact t 21

<210> 5
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end

<221> modified_base
<222> (2)...(4)
<223> phosphorothioate modified internucleotide linkages

<221> modified_base
<222> (16)...(18)
<223> phosphorothioate modified internucleotide linkages

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 5
acucucugac auacaucact t 21

<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end ^{temp1st}

<221> modified_base

<222> (2)...(6)

<223> phosphorothioate modified internucleotide linkages

<221> modified_base

<222> (14)...(18)

<223> phosphorothioate modified internucleotide linkages

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 6

acucucugac auacaucact t

21

<210> 7

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (2)...(7)

<223> 2' fluoro

<221> modified_base

<222> 10,12,14,16,17,19

<223> 2' fluoro

<221> modified_base

<222> (2)...(6)

<223> phosphorothioate modified internucleotide linkages

<221> modified_base

<222> (14)...(18)

<223> phosphorothioate modified internucleotide linkages

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 7

acucucugac auacaucact t

21

<210> 8

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 2,5,7,9,11,12,19

<223> 2' amino

temp1st

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 8
gugauguau ucagagagut t

21

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (2)...(6)
<223> 2' amino

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 9
acucucugac auacaucact t

21

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (2)...(18)
<223> phosphorothioate modified internucleotide linkages

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 10
gugauguau ucagagagut t

21

<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (2)...(18)
<223> phosphorothioate modified internucleotide linkages

<221> modified_base
<222> (0)...(0)
<223> 2' deoxythymidine

temp1st

<400> 11
acucucugac auacaucaact t 21

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (2)...(6)
<223> phosphorothioate modified internucleotide linkages

<221> modified_base
<222> (14)...(18)
<223> phosphorothioate modified internucleotide linkages

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 12
acucucugac auacaucaact t 21

<210> 13
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 2,5,7,9,11,19
<223> 2' - O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 13
gugauguau g ucagagagut t 21

<210> 14
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 2,3,4,5,6,12,14,16,17,19
<223> 2' omethyl

<221> modified_base
<222> (20)...(21)

templst

<223> 2' deoxythymidine
<400> 14
acucucugac auacaucact t 21

<210> 15
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 1,3,5,7,9,11,13,15,17
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 15
gugauguaug ucagagagut t 21

<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 2,4,6,14,16,18,
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 16
acucucugac auacaucact t 21

<210> 17
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 2,5,7,9,11,12,19
<223> 2' fluoro

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 17

temp1st

<221> modified_base
<222> (5)...(8)
<223> 2' fluoro

<221> modified_base
<222> 10,11,15,17,18
<223> 2' fluoro

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 21
agaacuuugc caaacaccat t

21

<210> 22
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (5)...(7)
<223> 2' fluoro

<221> modified_base
<222> 10,11,15,17,18
<223> 2' fluoro

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 22
agaacuuugc caaacaccat t

21

<210> 23
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (5)...(7)
<223> 2' fluoro

<221> modified_base
<222> 15,17,18
<223> 2' fluoro

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 23
agaacuuugc caaacaccat t

21

temp1st

<210> 24
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 8
<223> 2' fluoro

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 24
agaacuuugc caaacaccat t 21

<210> 25
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 3,4,6,8,9,10,13,14,16,18
<223> 2' fluoro

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 25
gauuaugucc gguuauguat t 21

<210> 26
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 1,3,5,8,9,13,15,18,19
<223> 2' fluoro

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 26
uacauaaaccg gacauaauct t 21

<210> 27
<211> 21
<212> DNA

<213> Artificial Sequence temp1st

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end

<221> modified_base

<222> (17)...(19)

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 27
uuuaugagga ucucucugat t 21

<210> 28

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end

<221> modified_base

<222> (16)...(18)

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 28
uuuaugagga ucucucugat t 21

<210> 29

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end

<221> modified_base

<222> (13)...(15)

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 29
uuuaugagga ucucucugat t 21

<210> 30

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

temp1st

<221> modified_base

<222> (10)...(12)

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 30

uuuaugagga ucucucugat t

21

<210> 31

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (7)...(9)

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 31

uuuaugagga ucucucugat t

21

<210> 32

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (5)...(7)

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 32

uuuaugagga ucucucugat t

21

<210> 33

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

temp1st

<221> modified_base
<222> (1)...(3)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 33
uuuaugagga ucucucugat t

21

<210> 34
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (18)...(19)
<223> 2'-deoxy

<223> 2' deoxythymidine

<400> 34
uuuaugagga ucucucugat t

21

<210> 35
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (17)...(18)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 35
uuuaugagga ucucucugat t

21

<210> 36
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (15)...(16)
<223> 2'-deoxy

<221> modified_base

temp1st

<222> (20)...(21)
<223> 2' deoxythymidine

<400> 36
uuuaugagga ucucucugat t

21

<210> 37
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (13)...(14)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 37
uuuaugagga ucucucugat t

21

<210> 38
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (11)...(12)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 38
uuuaugagga ucucucugat t

21

<210> 39
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (9)...(10)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

temp1st

<400> 39
uuuaugagga ucucucugat t

21

<210> 40
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (7)...(8)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 40
uuuaugagga ucucucugat t

21

<210> 41
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (5)...(6)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 41
uuuaugagga ucucucugat t

21

<210> 42
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (3)...(4)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 42
uuuaugagga ucucucugat t

21

temp1st

<210> 43
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (1)...(2)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 43
uuuaugagga ucucucugat t

21

<210> 44
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 19
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 44
uuuaugagga ucucucugat t

21

<210> 45
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 18
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 45
uuuaugagga ucucucugat t

21

<210> 46
<211> 21
<212> DNA

temp1st

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end

<221> modified_base

<222> 17

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 46
uuuaugagga ucucucugat t 21

<210> 47

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end

<221> modified_base

<222> 16

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 47
uuuaugagga ucucucugat t 21

<210> 48

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end

<221> modified_base

<222> 15

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 48
uuuaugagga ucucucugat t 21

<210> 49

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 14
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 49
uuuaugagga ucucucugat t

21

<210> 50
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 13
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 50
uuuaugagga ucucucugat t

21

<210> 51
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 12
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 51
uuuaugagga ucucucugat t

21

<210> 52
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

temp1st

<221> modified_base
<222> 11
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 52
uuuaugagga ucucucugat t

21

<210> 53
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 10
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 53
uuuaugagga ucucucugat t

21

<210> 54
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 9
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 54
uuuaugagga ucucucugat t

21

<210> 55
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 8
<223> 2'-deoxy

temp1st

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 55
uuuaugagga ucucucugat t

21

<210> 56
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 7
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 56
uuuaugagga ucucucugat t

21

<210> 57
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 6
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 57
uuuaugagga ucucucugat t

21

<210> 58
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 5
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)

temp1st

<223> 2' deoxythymidine

<400> 58

uuuaugagga ucucucugat t

21

<210> 59

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 4

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 59

uuuaugagga ucucucugat t

21

<210> 60

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 3

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 60

uuuaugagga ucucucugat t

21

<210> 61

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 2

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 61

templst	21
uuuaugagga ucucucugat t	
<210> 62	
<211> 21	
<212> DNA	
<213> Artificial sequence	
<220>	
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end	
<221> modified_base	
<222> 1	
<223> 2'-deoxy	
<221> modified_base	
<222> (20)...(21)	
<223> 2' deoxythymidine	
<400> 62	
uuuaugagga ucucucugat t	21
<210> 63	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end	
<221> modified_base	
<222> (17)...(19)	
<223> 2'-deoxy	
<221> modified_base	
<222> (20)...(21)	
<223> 2' deoxythymidine	
<400> 63	
ucagagagau ccucauuaat t	21
<210> 64	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end	
<221> modified_base	
<222> (16)...(18)	
<223> 2'-deoxy	
<221> modified_base	
<222> (20)...(21)	
<223> 2' deoxythymidine	
<400> 64	
ucagagagau ccucauuaat t	21
<210> 65	

temp1st

<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (13)...(15)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 65
ucagagagau ccucauaaat t 21

<210> 66
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (10)...(12)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 66
ucagagagau ccucauaaat t 21

<210> 67
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (7)...(9)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 67
ucagagagau ccucauaaat t 21

<210> 68
<211> 21
<212> DNA
<213> Artificial Sequence

temp1st

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (4)...(6)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 68
ucagagagau ccucauaat t

21

<210> 69
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (1)...(3)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 69
ucagagagau ccucauaat t

21

<210> 70
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (18)...(19)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 70
ucagagagau ccucauaat t

21

<210> 71
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
Page 23

3' end **temp1st**

<221> modified_base
<222> (17)...(18)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 71
ucagagagau ccucauaat t **21**

<210> 72
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (15)...(16)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 72
ucagagagau ccucauaat t **21**

<210> 73
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (13)...(14)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 73
ucagagagau ccucauaat t **21**

<210> 74
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

temp1st

<222> (11)...(12)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 74
ucagagagau ccucauaaat t

21

<210> 75
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2' deoxythymidines at
3' end

<221> modified_base
<222> (9)...(10)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 75
ucagagagau ccucauaaat t

21

<210> 76
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2' deoxythymidines at
3' end

<221> modified_base
<222> (7)...(8)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 76
ucagagagau ccucauaaat t

21

<210> 77
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2' deoxythymidines at
3' end

<221> modified_base
<222> (5)...(6)
<223> 2'-deoxy

temp1st

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 77
ucagagagau ccucauuaat t

21

<210> 78
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (3)...(4)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 78
ucagagagau ccucauuaat t

21

<210> 79
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (1)...(2)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 79
ucagagagau ccucauuaat t

21

<210> 80
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 19
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

temp1st

<400> 80
ucagagagau ccucauaat t
<210> 81
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 18
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 81
ucagagagau ccucauaat t
<210> 82
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 17
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 82
ucagagagau ccucauaat t
<210> 83
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 16
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 83
ucagagagau ccucauaat t

21

21

21

21

temp1st

<210> 84
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 15
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 84
ucagagagau ccucauaat t 21

<210> 85
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 14
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 85
ucagagagau ccucauaat t 21

<210> 86
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 13
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 86
ucagagagau ccucauaat t 21

<210> 87
<211> 21

temp1st

<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 12
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 87
ucagagagau ccucauuaat t 21

<210> 88
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 11
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 88
ucagagagau ccucauuaat t 21

<210> 89
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 10
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 89
ucagagagau ccucauuaat t 21

<210> 90
<211> 21
<212> DNA
<213> Artificial Sequence

temp1st

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 9
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 90
ucagagagau ccucauaat t

21

<210> 91
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 8
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 91
ucagagagau ccucauaat t

21

<210> 92
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 92
ucagagagau ccucauaat t

21

<210> 93
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

temp1st

<222> 6
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 93
ucagagagau ccucauaaat t

21

<210> 94
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 5
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 94
ucagagagau ccucauaaat t

21

<210> 95
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 4
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 95
ucagagagau ccucauaaat t

21

<210> 96
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 3
<223> 2'-deoxy

temp1st

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 96
ucagagagau ccucauaat t

21

<210> 97
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 2
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 97
ucagagagau ccucauaat t

21

<210> 98
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 1
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 98
ucagagagau ccucauaat t

21

<210> 99
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (17)...(19)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

temp1st

<400> 99

uuuaugagga ucucucugat t

21

<210> 100

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (16)...(18)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 100

uuuaugagga ucucucugat t

21

<210> 101

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (13)...(15)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 101

uuuaugagga ucucucugat t

21

<210> 102

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (10)...(12)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 102

uuuaugagga ucucucugat t

21

temp1st

<210> 103
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (7)...(9)
<223> 2'-O-methylcm

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 103
uuuaugagga ucucucugat t 21

<210> 104
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (4)...(6)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 104
uuuaugagga ucucucugat t 21

<210> 105
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (1)...(3)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 105
uuuaugagga ucucucugat t 21

<210> 106
<211> 21

temp1st

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (18)...(19)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 106

uuuaugagga ucucucugat t

21

<210> 107

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (17)...(18)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 107

uuuaugagga ucucucugat t

21

<210> 108

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (15)...(16)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 108

uuuaugagga ucucucugat t

21

<210> 109

<211> 21

<212> DNA

<213> Artificial Sequence

temp1st

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (13)...(14)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 109

uuuaugagga ucucucugat t

21

<210> 110

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (11)...(12)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 110

uuuaugagga ucucucugat t

21

<210> 111

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (9)...(10)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 111

uuuaugagga ucucucugat t

21

<210> 112

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

temp1st

<221> modified_base
<222> (7)...(8)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 112
uuuaugagga ucucucugat t

<210> 113
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (5)...(6)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 113
uuuaugagga ucucucugat t

<210> 114
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (3)...(4)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 114
uuuaugagga ucucucugat t

<210> 115
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (1)...(2)

21

21

21

<223> 2'-O-methyl temp1st
<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 115
uuuaugagga ucucucugat t 21
<210> 116
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2' deoxythymidines at
3' end

<221> modified_base
<222> 19
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 116
uuuaugagga ucucucugat t 21
<210> 117
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2' deoxythymidines at
3' end

<221> modified_base
<222> 18
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 117
uuuaugagga ucucucugat t 21
<210> 118
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2' deoxythymidines at
3' end

<221> modified_base
<222> 17
<223> 2'-O-methyl

<221> modified_base

temp1st

<222> (20)...(21)
<223> 2' deoxythymidine

<400> 118
uuuaugagga ucucucugat t

<210> 119
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 16
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 119
uuuaugagga ucucucugat t

<210> 120
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 15
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 120
uuuaugagga ucucucugat t

<210> 121
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 14
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

21

21

21

temp1st

<400> 121
uuuaugagga ucucucugat t 21

<210> 122
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 13
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 122
uuuaugagga ucucucugat t 21

<210> 123
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 12
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 123
uuuaugagga ucucucugat t 21

<210> 124
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 11
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 124
uuuaugagga ucucucugat t 21

temp1st

<210> 125
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 10
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 125
uuuaugagga ucucucugat t 21

<210> 126
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 9
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 126
uuuaugagga ucucucugat t 21

<210> 127
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 8
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 127
uuuaugagga ucucucugat t 21

<210> 128
<211> 21
<212> DNA

temp1st

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 7

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 128

uuuaugagga ucucucugat t

21

<210> 129

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 6

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 129

uuuaugagga ucucucugat t

21

<210> 130

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 5

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 130

uuuaugagga ucucucugat t

21

<210> 131

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end ^{templst}

<221> modified_base

<222> 4

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 131

uuuaugagga ucucucugat t

21

<210> 132

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 3

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 132

uuuaugagga ucucucugat t

21

<210> 133

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 2

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 133

uuuaugagga ucucucugat t

21

<210> 134

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

temp1st

<221> modified_base
<222> 1
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 134
uuuaugagga ucucucugat t

21

<210> 135
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (17)...(19)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 135
ucagagagau ccucauaaat t

21

<210> 136
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (16)...(18)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 136
ucagagagau ccucauaaat t

21

<210> 137
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (13)...(15)
<223> 2'-O-methyl

temp1st

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 137
ucagagagau ccucauuaat t

21

<210> 138
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (10)...(12)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 138
ucagagagau ccucauuaat t

21

<210> 139
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (7)...(9)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 139
ucagagagau ccucauuaat t

21

<210> 140
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (4)...(6)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)

temp1st

<223> 2' deoxythymidine

<400> 140

ucagagagau ccucauaat t

21

<210> 141

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (1)...(3)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 141

ucagagagau ccucauaat t

21

<210> 142

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (19)...(20)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 142

ucagagagau ccucauaat t

21

<210> 143

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (16)...(17)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 143

ucagagagau ccucauaat t	templst	
		21
<210> 144		
<211> 21		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end		
<221> modified_base		
<222> (14)...(15)		
<223> 2'-O-methyl		
<221> modified_base		
<222> (20)...(21)		
<223> 2' deoxythymidine		
<400> 144		
ucagagagau ccucauaat t		21
<210> 145		
<211> 21		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end		
<221> modified_base		
<222> (12)...(13)		
<221> modified_base		
<222> (20)...(21)		
<223> 2' deoxythymidine		
<400> 145		
ucagagagau ccucauaat t		21
<210> 146		
<211> 21		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end		
<221> modified_base		
<222> (10)...(11)		
<223> 2'-O-methyl		
<221> modified_base		
<222> (20)...(21)		
<223> 2' deoxythymidine		
<400> 146		
ucagagagau ccucauaat t		21
<210> 147		
<211> 21		

temp1st

<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (8)...(9)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 147
ucagagagau ccucauaaat t

21

<210> 148
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (6)...(7)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 148
ucagagagau ccucauaaat t

21

<210> 149
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (5)...(6)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 149
ucagagagau ccucauaaat t

21

<210> 150
<211> 21
<212> DNA
<213> Artificial Sequence

temp1st

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (3)...(4)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 150

ucagagagau ccucauaat t

21

<210> 151
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (1)...(2)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 151

ucagagagau ccucauaat t

21

<210> 152
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 19
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 152

ucagagagau ccucauaat t

21

<210> 153
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

temp1st

<221> modified_base
<222> 18
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 153
ucagagagau ccucauaaat t

21

<210> 154
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 17
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 154
ucagagagau ccucauaaat t

21

<210> 155
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 16
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 155
ucagagagau ccucauaaat t

21

<210> 156
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 15

temp1st

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 156

ucagagagau ccucauuaat t

21

<210> 157

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 14

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 157

ucagagagau ccucauuaat t

21

<210> 158

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 13

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 158

ucagagagau ccucauuaat t

21

<210> 159

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 12

<223> 2'-O-methyl

<221> modified_base

temp1st

<222> (20)...(21)
<223> 2' deoxythymidine

<400> 159
ucagagagau ccucauuaat t

21

<210> 160
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2' deoxythymidines at
3' end

<221> modified_base
<222> 11
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 160
ucagagagau ccucauuaat t

21

<210> 161
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2' deoxythymidines at
3' end

<221> modified_base
<222> 10
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 161
ucagagagau ccucauuaat t

21

<210> 162
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2' deoxythymidines at
3' end

<221> modified_base
<222> 9
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

temp1st
21

<400> 162
ucagagagau ccucauaat t
<210> 163
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 8
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 163
ucagagagau ccucauaat t
21
<210> 164
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 7
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 164
ucagagagau ccucauaat t
21
<210> 165
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 6
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 165
ucagagagau ccucauaat t
21

temp1st

<210> 166
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 5
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 166
ucagagagau ccucauaat t 21

<210> 167
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 4
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 167
ucagagagau ccucauaat t 21

<210> 168
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 3
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 168
ucagagagau ccucauaat t 21

<210> 169
<211> 21
<212> DNA

temp1st

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 2

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 169

ucagagagau ccucauaaat t

21

<210> 170

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 1

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 170

ucagagagau ccucauaaat t

21

<210> 171

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (1)...(2)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 171

gugauguaug ucagagagut t

21

<210> 172

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end templst

<221> modified_base
<222> (17)...(19)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 172
acucucugac auacaucact t

21

<210> 173
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (16)...(18)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 173
acucucugac auacaucact t

21

<210> 174
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (13)...(15)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 174
acucucugac auacaucact t

21

<210> 175
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

temp1st

<221> modified_base
<222> (10)...(12)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 175
acucucugac auacaucact t

21

<210> 176
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (8)...(10)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 176
acucucugac auacaucact t

21

<210> 177
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (4)...(6)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 177
acucucugac auacaucact t

21

<210> 178
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (1)...(3)
<223> 2'-deoxy

temp1st

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 178
acucucugac auacaucact t

21

<210> 179
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (18)...(19)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 179
acucucugac auacaucact t

21

<210> 180
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (17)...(18)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 180
acucucugac auacaucact t

21

<210> 181
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (15)...(16)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)

temp1st

<223> 2' deoxythymidine

<400> 181
acucucugac auacaucact t

21

<210> 182
<211> 21
<212> DNA
<213> Artificial Sequence<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end<221> modified_base
<222> (13)...(14)
<223> 2'-deoxy<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine<400> 182
acucucugac auacaucact t

21

<210> 183
<211> 21
<212> DNA
<213> Artificial Sequence<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end<221> modified_base
<222> (11)...(12)
<223> 2'-deoxy<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine<400> 183
acucucugac auacaucact t

21

<210> 184
<211> 21
<212> DNA
<213> Artificial Sequence<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end<221> modified_base
<222> (9)...(10)
<223> 2'-deoxy<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 184

temp1st 21
acucucugac auacaucact t
<210> 185
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (7)...(8)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 185 21
acucucugac auacaucact t
<210> 186
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (5)...(6)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 186 21
acucucugac auacaucact t
<210> 187
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (3)...(4)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 187 21
acucucugac auacaucact t
<210> 188

temp1st

<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (1)...(2)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 188
acucucugac auacaucact t

21

<210> 189
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (17)...(19)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 189
acucucugac auacaucact t

21

<210> 190
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (16)...(18)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 190
acucucugac auacaucact t

21

<210> 191
<211> 21
<212> DNA
<213> Artificial Sequence

temp1st

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end

<221> modified_base
<222> (13)...(15)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 191
acucucugac auacaucaact t

21

<210> 192
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end

<221> modified_base
<222> (10)...(12)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 192
acucucugac auacaucaact t

21

<210> 193
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end

<221> modified_base
<222> (7)...(9)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 193
acucucugac auacaucaact t

21

<210> 194
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
Page 62

templist

3' end

<221> modified_base
<222> (4)...(6)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 194
acucucugac auacaucact t

<210> 195
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (1)...(3)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 195
acucucugac auacaucact t

<210> 196
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (18)...(19)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 196
acucucugac auacaucact t

<210> 197
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

temp1st

<222> (17)...(18)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 197
acucucugac auacaucact t

21

<210> 198
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (15)...(16)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 198
acucucugac auacaucact t

21

<210> 199
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (13)...(14)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 199
acucucugac auacaucact t

21

<210> 200
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (11)...(12)
<223> 2'-O-methyl

temp1st

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 200
acucucugac auacaucact t

<210> 201
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (9)...(10)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 201
acucucugac auacaucact t

<210> 202
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (7)...(8)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 202
acucucugac auacaucact t

<210> 203
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (5)...(6)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

21

21

21

temp1st

<400> 203
acucucugac auacaucact t
<210> 204
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end
<221> modified_base
<222> (3)...(4)
<223> 2'-O-methyl
<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine
<400> 204
acucucugac auacaucact t
<210> 205
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end
<221> modified_base
<222> (1)...(2)
<223> 2'-O-methyl
<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine
<400> 205
acucucugac auacaucact t
<210> 206
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end
<221> modified_base
<222> (17)...(19)
<223> 2'-deoxy
<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine
<400> 206
gugauguau g ucagagagut t

21

21

21

21

temp1st

<210> 207
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (16)...(18)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 207
gugauguaug ucagagagut t

21

<210> 208
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (13)...(15)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 208
gugauguaug ucagagagut t

21

<210> 209
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (10)...(12)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 209
gugauguaug ucagagagut t

21

<210> 210
<211> 21

temp1st

<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (7)...(9)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 210
gugauguaug ucagagagut t 21

<210> 211
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (4)...(6)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 211
gugauguaug ucagagagut t 21

<210> 212
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (1)...(3)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 212
gugauguaug ucagagagut t 21

<210> 213
<211> 21
<212> DNA
<213> Artificial Sequence

temp1st

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (18)...(19)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 213
gugauguaug ucagagagut t

21

<210> 214
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (17)...(18)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 214
gugauguaug ucagagagut t

21

<210> 215
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (15)...(16)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 215
gugauguaug ucagagagut t

21

<210> 216
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

temp1st

<221> modified_base
<222> (13)...(14)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 216
gugauguaug ucagagagut t

21

<210> 217
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (11)...(12)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 217
gugauguaug ucagagagut t

21

<210> 218
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (9)...(10)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 218
gugauguaug ucagagagut t

21

<210> 219
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (7)...(8)

temp1st

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 219

gugauguau g ucagagagut t

21

<210> 220

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (5)...(6)

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 220

gugauguau g ucagagagut t

21

<210> 221

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (3)...(4)

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 221

gugauguau g ucagagagut t

21

<210> 222

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (1)...(2)

<223> 2'-deoxy

<221> modified_base

temp1st

<222> (20)...(21)
<223> 2' deoxythymidine

<400> 222
gugauguaug ucagagagut t

21

<210> 223
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (17)...(19)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 223
gugauguaug ucagagagut t

21

<210> 224
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (16)...(18)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 224
gugauguaug ucagagagut t

21

<210> 225
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (13)...(15)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

temp1st

<400> 225
gugauguaug ucagagagut t

21

<210> 226
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (10)...(12)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 226
gugauguaug ucagagagut t

21

<210> 227
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (7)...(9)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 227
gugauguaug ucagagagut t

21

<210> 228
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (4)...(6)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 228
gugauguaug ucagagagut t

21

temp1st

<210> 229

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end

<221> modified_base

<222> (1)...(3)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 229

gugauguaug ucagagagut t

21

<210> 230

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end

<221> modified_base

<222> (18)...(19)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 230

gugauguaug ucagagagut t

21

<210> 231

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at 3' end

<221> modified_base

<222> (17)...(18)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 231

gugauguaug ucagagagut t

21

<210> 232

<211> 21

<212> DNA

templist

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (15)...(16)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 232

gugauguaug ucagagagut t

21

<210> 233

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (13)...(14)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 233

gugauguaug ucagagagut t

21

<210> 234

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> (11)...(12)

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 234

gugauguaug ucagagagut t

21

<210> 235

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2' deoxythymidines at
3' end ^{templst}

<221> modified_base
<222> (9)...(10)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 235
gugauguaug ucagagagut t

21

<210> 236
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2' deoxythymidines at
3' end

<221> modified_base
<222> (7)...(8)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 236
gugauguaug ucagagagut t

21

<210> 237
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2' deoxythymidines at
3' end

<221> modified_base
<222> (5)...(6)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 237
gugauguaug ucagagagut t

21

<210> 238
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2' deoxythymidines at
3' end

temp1st

<221> modified_base
<222> (3)...(4)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 238
gugauguaug ucagagagut t

21

<210> 239
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 19
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 239
gugauguaug ucagagagut t

21

<210> 240
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 18
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 240
gugauguaug ucagagagut t

21

<210> 241
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 17
<223> 2'-O-methyl

templist

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 241
gugauguaug ucagagagut t

21

<210> 242
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 16
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine.

<400> 242
gugauguaug ucagagagut t

21

<210> 243
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 15
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 243
gugauguaug ucagagagut t

21

<210> 244
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 14
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)

temp1st

<223> 2' deoxythymidine

<400> 244

gugauguaug ucagagagut t

21

<210> 245

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 13

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 245

gugauguaug ucagagagut t

21

<210> 246

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 12

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 246

gugauguaug ucagagagut t

21

<210> 247

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 11

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 247

temp1st

21

gugauguaug ucagagagut t

<210> 248

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 10

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 248

gugauguaug ucagagagut t

21

<210> 249

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 9

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 249

gugauguaug ucagagagut t

21

<210> 250

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 8

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 250

gugauguaug ucagagagut t

21

<210> 251

temp1st

<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 7
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 251
gugauguaug ucagagagut t 21

<210> 252
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 6
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 252
gugauguaug ucagagagut t 21

<210> 253
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 6
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 253
gugauguaug ucagagagut t 21

<210> 254
<211> 21
<212> DNA
<213> Artificial Sequence

temp1st

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 4

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 254

gugauguaug ucagagagut t

21

<210> 255

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 3

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 255

gugauguaug ucagagagut t

21

<210> 256

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 2

<223> 2'-O-methyl

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 256

gugauguaug ucagagagut t

21

<210> 257

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at

Page 82

temp1st
3' end

<221> modified_base
<222> 1
<223> 2'-O-methylcmnm5u

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 257
gugauguaug ucagagagut t

<210> 258
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 19
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 258
acucucugac auacaucact t

<210> 259
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 18
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 259
acucucugac auacaucact t

<210> 260
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

21

21

21

templist

<222> 17
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 260
acucucugac auacaucact t

21

<210> 261
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (0)...(0)
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 261
acucucugac auacaucact t

21

<210> 262
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 15
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 262
acucucugac auacaucact t

21

<210> 263
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 14
<223> 2'-O-methyl

temp1st

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 263
acucucugac auacaucact t

21

<210> 264
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 13
<223> 2'-O-methylcmnm5s2u

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 264
acucucugac auacaucact t

21

<210> 265
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 13
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 265
acucucugac auacaucact t

21

<210> 266
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 11
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

templst

<400> 266
acucucugac auacaucact t 21

<210> 267
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 10
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 267
acucucugac auacaucact t 21

<210> 268
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 9
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 268
acucucugac auacaucact t 21

<210> 269
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 8
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 269
acucucugac auacaucact t 21

temp1st

<210> 270
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 7
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 270
acucucugac auacaucact t 21

<210> 271
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 6
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 271
acucucugac auacaucact t 21

<210> 272
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 5
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 272
acucucugac auacaucact t 21

<210> 273
<211> 21

temp1st

<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 4
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 273
acucucugac auacaucact t

21

<210> 274
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 3
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 274
acucucugac auacaucact t

21

<210> 275
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 2
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 275
acucucugac auacaucact t

21

<210> 276
<211> 21
<212> DNA
<213> Artificial Sequence

temp1st

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 1
<223> 2'-O-methyl

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 276
acucucugac auacaucact t

21

<210> 277
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 19
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 277
gugauguaug ucagagagut t

21

<210> 278
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 18
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 278
gugauguaug ucagagagut t

21

<210> 279
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

temp1st

<221> modified_base
<222> 17
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 279
gugauguaug ucagagagut t

21

<210> 280
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 16
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 280
gugauguaug ucagagagut t

21

<210> 281
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 15
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 281
gugauguaug ucagagagut t

21

<210> 282
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 14

temp1st

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 282

gugauguaug ucagagagut t

21

<210> 283

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 13

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 283

gugauguaug ucagagagut t

21

<210> 284

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 12

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 284

gugauguaug ucagagagut t

21

<210> 285

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 11

<223> 2'-deoxy

<221> modified_base

temp1st

<222> (20)...(21)
<223> 2' deoxythymidine

<400> 285
gugauguau ucagagagut t

21

<210> 286
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 10
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 286
gugauguau ucagagagut t

21

<210> 287
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 9
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 287
gugauguau ucagagagut t

21

<210> 288
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 8
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

temp1st

<400> 288
gugauguau ucagagagut t 21

<210> 289
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 7
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 289
gugauguau ucagagagut t 21

<210> 290
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 6
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 290
gugauguau ucagagagut t 21

<210> 291
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 5
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 291
gugauguau ucagagagut t 21

temp1st

<210> 292
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 4
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 292
gugauguaug ucagagagut t

21

<210> 293
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 3
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 293
gugauguaug ucagagagut t

21

<210> 294
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 2
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 294
gugauguaug ucagagagut t

21

<210> 295
<211> 21
<212> DNA

temp1st

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 1

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 295

gugauguau g ucagagagut t

21

<210> 296

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 19

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 296

acucucugac auacaucact t

21

<210> 297

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 18

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 297

acucucugac auacaucact t

21

<210> 298

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 17

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 298

acucucugac auacaucact t

21

<210> 299

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 16

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 299

acucucugac auacaucact t

21

<210> 300

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 15

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 300

acucucugac auacaucact t

21

<210> 301

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

temp1st

<221> modified_base
<222> 14
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 301
acucucugac auacaucaact t

21

<210> 302
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 13
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 302
acucucugac auacaucaact t

21

<210> 303
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 12
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 303
acucucugac auacaucaact t

21

<210> 304
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 11
<223> 2'-deoxy

templist

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 304
acucucugac auacaucact t

21

<210> 305
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 10
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 305
acucucugac auacaucact t

21

<210> 306
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 9
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 306
acucucugac auacaucact t

21

<210> 307
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 8
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)

temp1st

<223> 2' deoxythymidine

<400> 307

acucucugac auacaucact t

21

<210> 308

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 7

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 308

acucucugac auacaucact t

21

<210> 309

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 6

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 309

acucucugac auacaucact t

21

<210> 310

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base

<222> 5

<223> 2'-deoxy

<221> modified_base

<222> (20)...(21)

<223> 2' deoxythymidine

<400> 310

temp1st
acucucugac auacaucact t 21

<210> 311
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> (0)...(0)
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 311
acucucugac auacaucact t 21

<210> 312
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 3
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 312
acucucugac auacaucact t 21

<210> 313
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 2
<223> 2'-deoxy

<221> modified_base
<222> (20)...(21)
<223> 2' deoxythymidine

<400> 313
acucucugac auacaucact t 21

<210> 314

temp1st

<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<223> RNA/DNA, synthetic, RNA with 2'deoxythymidines at
3' end

<221> modified_base
<222> 1
<223> 2'-deoxy

<400> 314
gaaagagcau cuacggugat t 21

<210> 315
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> 2'-O-Methyl

<223> 2'-O-Methyl

<400> 315
gaaaggauuu ggcuacaaa 19

<210> 316
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> 2'-O-Methyl

<221> modified_base
<222> 8,9,10,13,14,16
<223> 2'-O-Methyl

<400> 316
acagcaaauu ccaucgugu 19

<210> 317
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> 2'-O-Methyl

<221> modified_base
<222> 5,9,10,11,12,14,15,17,19
<223> 2'-O-Methyl

<400> 317
acagcaaauu ccaucgugu 19

<210> 318
<211> 19

temp1st

<212> DNA
<213> Artificial Sequence

<220>
<223> 2'-O-Methyl

<221> modified_base
<222> 8,9,11,12,13,14
<223> 2'-O-Methyl

<400> 318
ggaaagacug uuccaaaaaa

19

<210> 319
<211> 4
<212> DNA
<213> Artificial Sequence

<220>
<223> nucleotide loop

<400> 319
uucg

4

<210> 320
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> nucleotide loop

<400> 320
uuuguguag

9

<210> 321
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> nucleotide loop

<400> 321
cuuccuguca

10

<210> 322
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> 2'-O-Methyl

<221> modified_base
<222> 1
<223> Cy3 label

<221> modified_base
<222> 3,4,9,12
<223> 2'-O-Methyl

<400> 322

	temp1st	
ggccttagct acaggagag		19
<210> 323		
<211> 4		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> nucleotide loop		
<400> 323		4
uucg		
<210> 324		
<211> 9		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> nucleotide loop		
<400> 324		9
uuuguguag		
<210> 325		
<211> 10		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> nucleotide loop		
<400> 325		10
cuuccuguca		
<210> 326		
<211> 21		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> RNA/DNA, synthetic, RNA with 2' deoxythymidines at		
3'		
<221> modified_base		
<222> (20)...(21)		
<223> 2' deoxythymidine		
<400> 326		21
gugauguau g ucagagagut t		
<210> 327		
<211> 19		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> 2'-O-methyl		
<400> 327		19
gaaaaaucag agagaauccu		
<210> 328		

temp1st

<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> 2'-O-methyl

<400> 328
uacccggaaaa cucgacgca

19

<210> 329
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> 2'-O-methyl

<400> 329
acgucgccag ucaaguaac

19

<210> 330
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> 2'-O-methyl

<400> 330
gauuacgucg ccagucaag

19

<210> 331
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> 2'-O-methyl

<400> 331
agagauccug gauuacguc

19

<210> 332
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> 2'-O-methyl

<400> 332
uguuguuuug gagcacgga

19

<210> 333
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> 2'-O-methyl

<221> modified_base

temp1st

<222> 4,7,8,12,14,16,17
<223> 2'-O-methyl

<400> 333
uagcgacuaa acacaucaa

<210> 334
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> 2'-O-methyl

<221> modified_base
<222> 4,7,8,12,14,16,17
<223> 2'-O-methyl

<400> 334
uagcgacuaa acacauac

<210> 335
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> synthetic human cyclophilin siRNA sense strand

<400> 335
ggccuuagcu acaggagag

19

17

19